

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/05647

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H03H17/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 44 02 632 A (ANT NACHRICHTENTECH) 3 August 1995 (1995-08-03) the whole document	1,9
A	NGUYEN T Q ET AL: "STRUCTURES FOR M-CHANNEL PERFECT-RECONSTRUCTION FIR QMF BANKS WHICH YIELD LINEAR-PHASE ANALYSIS FILTERS" IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, IEEE INC. NEW YORK, US, vol. 38, no. 3, 1 March 1990 (1990-03-01), pages 433-446, XP000116523 ISSN: 0096-3518 the whole document	1,9



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*A\* document member of the same patent family

Date of the actual completion of the international search

10 February 2004

Date of mailing of the international search report

16/04/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>56-93: "MULTIRATE DIGITAL FILTERS, FILTER BANKS, POLYPHASE NETWORKS, AND APPLICATIONS: A TUTORIAL" PROCEEDINGS OF THE IEEE, IEEE. NEW YORK, US, vol. 78, no. 1, 1990, pages 56-93, XP000125845 ISSN: 0018-9219 the whole document</p>	1,9

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 4402632 A	03-08-1995	DE 4402632 A1	03-08-1995